

Title (en)
NEEDLE RETRACTING MECHANISM, NEEDLE HOLDER AND HYPODERMIC SYRINGE

Title (de)
NADELZURUCKZIEBARE MECHANISMUS, NADELHALTERUNG UND HYPODERMISCHE SPRITZE

Title (fr)
MECANISME DE RETRAIT D'AIGUILLE, PORTE-AIGUILLE ET SERINGUE HYPODERMIQUE

Publication
EP 1239903 A1 20020918 (EN)

Application
EP 00987844 A 20001218

Priority
• NO 0000433 W 20001218
• NO 996459 A 19991223

Abstract (en)
[origin: US2002183695A1] An automatic needle retracting mechanism (1) for a hypodermic syringe (2) comprises a body (3) which slidably supports a needle (27). A retainer (9) for an actuator (8) and the needle (27) is kept in a retaining position by a spacer (11), which after some time in contact with an injectant loses its mechanical strength. A filling of the needle with an injectant causes a deformation of the spacer (11), a release of the actuator (8) and a retracting of the retainer (9) and needle (27) into a needle retraction chamber (4). The needle retracting mechanism may also include an inner sleeve (20) which is manually movable towards the retainer (9) for a manual release of the actuator (8). The needle retracting mechanism may be included in a needle holder (33) or integrated in a syringe (2').

IPC 1-7
A61M 5/32; **A61M 5/50**

IPC 8 full level
A61M 5/32 (2006.01)

CPC (source: EP US)
A61M 5/3234 (2013.01 - EP US); **A61M 2005/3235** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0147588 A1 20010705; AT E254486 T1 20031215; AU 2411901 A 20010709; CN 1214826 C 20050817; CN 1413123 A 20030423; DE 60006716 D1 20031224; DE 60006716 T2 20040930; DE 60006716 T8 20050113; DK 1239903 T3 20040322; EA 003522 B1 20030626; EA 200200703 A1 20021226; EP 1239903 A1 20020918; EP 1239903 B1 20031119; ES 2211659 T3 20040716; HK 1053798 A1 20031107; JP 2003518416 A 20030610; NO 312013 B1 20020304; NO 996459 D0 19991223; NO 996459 L 20010625; US 2002183695 A1 20021205; US 6716197 B2 20040406; ZA 200204764 B 20031125

DOCDB simple family (application)
NO 0000433 W 20001218; AT 00987844 T 20001218; AU 2411901 A 20001218; CN 00817562 A 20001218; DE 60006716 T 20001218; DK 00987844 T 20001218; EA 200200703 A 20001218; EP 00987844 A 20001218; ES 00987844 T 20001218; HK 03106094 A 20030826; JP 2001548174 A 20001218; NO 996459 A 19991223; US 14938602 A 20020612; ZA 200204764 A 20020613